Work Orde October-17-13		346 /		*108	3467*						Page 1	
Revision ID:	D3407-5	Commence of the Commence of th	A	Accept	*N900	040	100)* s	etup Star	10.	S1* S2*	
	10/17/13	Start Qty: 24.00 Req'd Qty: 24.00	*74* *74*		Cust Item I Customer:	D:				IV		
Approvals:			Date: 13-10- 2 (ate:		R	tun Star Stop		R1* R2*	
Sequence ID/ Work Center II		Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	
Draw Nbr	Revi	ision Nbr										i
D3407	Rev	E							- Alle Alle			:
100 *100 Waterjet		FLOW WATER JET		0.00				24	o		Jm13-18	۱-د
Waterjet FLOW CNC Waterj		Memo 1-Cut as per Dwg Rev:_ Prog Rev:_		0.00								
		2-Break edg	ges on grinder as per Dwg D3	3407								
110 *414 ^ *		QC2- Inspect parts off m	nachine FAI/FAIB	0.00				ير ر	0		Jm 3-13	-18
110 QC		Memo		0.00				<u>~</u> `	<u>.</u> -		ه ایصدر در در	. , , ,

Quality Control

											DQA:	Date	
NCR:	⁄es	/ No				WORK ORDER NON-	-co	NFORM	MANCE / UPD	PATE			
											QA Closed:	Date	:
Work Orde	er:					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Part No.					Rework Scrap Use-as-is		ľ	Skid-tube Crosstube Machining Small Fab Thermoforming Finishing			Water Jet d. Eng. Coor. re/Packaging	Engineering Quality Other	
NCR 1	No.					Work Order Update			Large Fab	Composite	j	Supplier	
Root					Descri	ption of work order update		Initial	Acti	on	Sign &		
Cause		Date	Step	Qty	(or Non-conformance	CI	hief Eng	Descri	ption	Date	Verification	QC Inspector
Doc/Data													
Equip/Tooling													
Operator													
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Setup								1					
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Process													
Supplier									:				
Training													
Unapproved			1				1						
					<u> </u>		FAU	LT CATE	GORY			1	
Landi	ng (Gear				General							
		Bending				Bend		Grain			Ovalized		Pressure/Forced
1	Centre Not Concentric to O/S			o/s	BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure	
	Cracks				Broken/Damaged		Inspecti	on Incomplete	}	Part Incorre		Weld	
			Burrs		⊣	ions Incomplete/U	nclear	Part Lost/M	j -	Wrong Stock Pulled			
		Cuffs	•			Contamination		Mainte			Part Moved	~ <u>_</u>	
		Heat Trea	at			Countersink		Mislabe			Positioned V	Vrong	
	Inspection Strip in Tube					Cut Too Short	 	Misread			Power Loss/		Other

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Order ID 108467 October-17-13 1:35:20 PM				*108467*								Page 2
Item ID: D3407-5 Revision ID: Item Name: Ring			A	*N9000			<u>140100*</u>			Start Stop	I U	S1* S2*
Start Date: Required Date: Reference:	10/17/13 10/17/13	Start Qty: 24.00 Req'd Qty: 24.00	*24* *24*		Cust Item I Customer:	D:			_			
Approvals:			Oate:	Tooling: SPC (Y/N):		ate:			Run	Start Stop	*N *N	R1* R2*
Sequence ID/ Work Center II 120 *170* QC Quality Control)	Operation Description QC8- Inspect parts - second of Memo	check	Set Up/ Run Hours 0.00 DAS 27 9-89	Tool ID	Tool #	Plan Code	Accept Qty 24 COm	Rej. Qty		Reject Number	Insp. Stamp
*130 *130* Packaging Packaging	" شتون .	Identify as per dwg & Stock Memo *****STOCK II	Location: W/A (X)	0.00				24		<u>a</u>	/3-/ <i>3</i> -	18

0.00

0.00

13/12/31 MF (3)2-20

Quality Control

140

Memo

QC21- Final Inspection - Work Order Release

NCR:	Yes	/ No				WORK ORDER NON-	COI	NFORM	MANCE / UPDATE					
											QA Closed:	D	ate:	
Work Orde	er: _					DISPOSITION	7	AGAINST DEPARTMENT/PROCESS						
Part No					Use-as-is Thermofor			Skid-tube Crosstube Water Jet Engi Machining Small Fab Prod. Eng. Coor. hermoforming Finishing Rec/Store/Packaging Supplier					Engineering Quality Other	
Root					Descri	ption of work order update		Initial	Action		Sign &			
Cause		Date	Step	Qty	•	or Non-conformance	Ct	nief Eng	Description		Date	Verification	วท	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved								÷						
							AUI	LT CATE	GORY			<u> </u>		
Landi		Bending Centre No Cracks Crushed/ Cuffs Heat Trea Inspectio Ripples in	Crimped at n Strip in n Bend	Tube		General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes		Instruct Mainte Mislabe Misread Offset	ion Incomplete ions Incomplete/Unclear enance eled		Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	ct ssing Vrong		Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
1	Torque Waves in Extrusion Drawing				urawing	L	Out of 0	Calibration						

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

October-17-13 1:35:20 PM

Page 1/1

Work Order ID:

108467

Parent Item:

D3407-5

Parent Item Name:

Ring

Start Date: 10/17/13

Required Date: 10/17/13

Start Qty: 24.00

Required Qty: 24.00

Comments:

IPP Rev:A New Issue 05-11-22 JLM

IPP Rev:B Now on Waterjet 08-05-14 JLM Verified By:DD

IPP Rev.C. 08-08-12 revE as per dwg (ecn 08-507) DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M174B0.250X4.000 17-4 SS Bar .250 X 4.00		Purchased	No			100	f	0.0000	0.2666	6.735158 4	ſ		JMB-12-18

3-127719

127719

										DQA:	Dat	:e: _	
NCR: Y	es / No				WORK ORDER NON-C	CON	FORM	MANCE / UPDATE					
									_	QA Closed:	Dat	e:	
Mork Orda					DISPOSITION			AGAINST	DE	PARTMENT/	PROCESS		
Work Orde	er:				Rework			Skid-tube Crosstube	_	ì	Water Jet	\neg	Engineering
Part N	lo.				Scrap	1		Machining Small Fab	-	Pro	d. Eng. Coor.	\dashv	Quality
raiti					Use-as-is Thermoforming Finishing			Rec/Store/Packaging			Other		
NCR No.					Work Order Update	1 1		Large Fab Composite	-	1100,5101	Supplier	\dashv	
						'		0	_	l	, , , , , , , , , , , , , , , , , , ,		
Root				Descri	ption of work order update	In	itial	Action		Sign &			
Cause	Date	Step	Qty	(or Non-conformance	Chi	ef Eng	Description		Date	Verification	1	QC Inspector
Doc/Data		ĺ											
Equip/Tooling													
Operator		ļ											
Material													
Setup													
Other													
Process								·					
Supplier													
Training													
Unapproved		1	<u>l</u>							<u> </u>		\bot	
					F	AULT	CATE	GORY			····		
Landii	ng Gear				General				_	•	-		
	Bending				Bend	Ц	Grain		<u>_</u>	Ovalized		P	Pressure/Forced
	Centre Not Concentric to O/S BOM/Route			BOM/Route	الل	Hardwa	re	L	Over/Under	tolerance		Temperature/Cure	
	Cracks Broken/Damaged			Broken/Damaged		nspecti	on incomplete	匚	Part Incorred	t [v	Weld	
	Crushed/Crimped Burrs			Burrs		nstruct	ions Incomplete/Unclear	L	Part Lost/Mi	ssing	v	Wrong Stock Pulled	
	Cuffs				Contamination		Mainte	nance	L	Part Moved			
	Heat Treat				Countersink		Mislabe	eled		Positioned W	/rong		

Misread

Out of Calibration

Out of Sequence

Outside Dimensions

Offset

Power Loss/Surge

Other

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Inspection Strip in Tube

Torque Waves in Extrusion

Cut Too Short

Drill Holes

Drawing

Finish

Folio

DART AEROSPACE LTD	Work Order:	108467
Description: Tow Ring	Part Number:	D3407-5
Inspection Dwg: D3407 Rev: E		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First Article Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
0.250	+/-0.010	0,260	_		υ	Jemoi
Ø3.000	+/-0.030	3.007	-		✓ ✓	
Ø2.050	+0.012/-0.001	2.051"	_	·	V	
0.75	+/-0.030	3.007	_			

Measured by: Jm

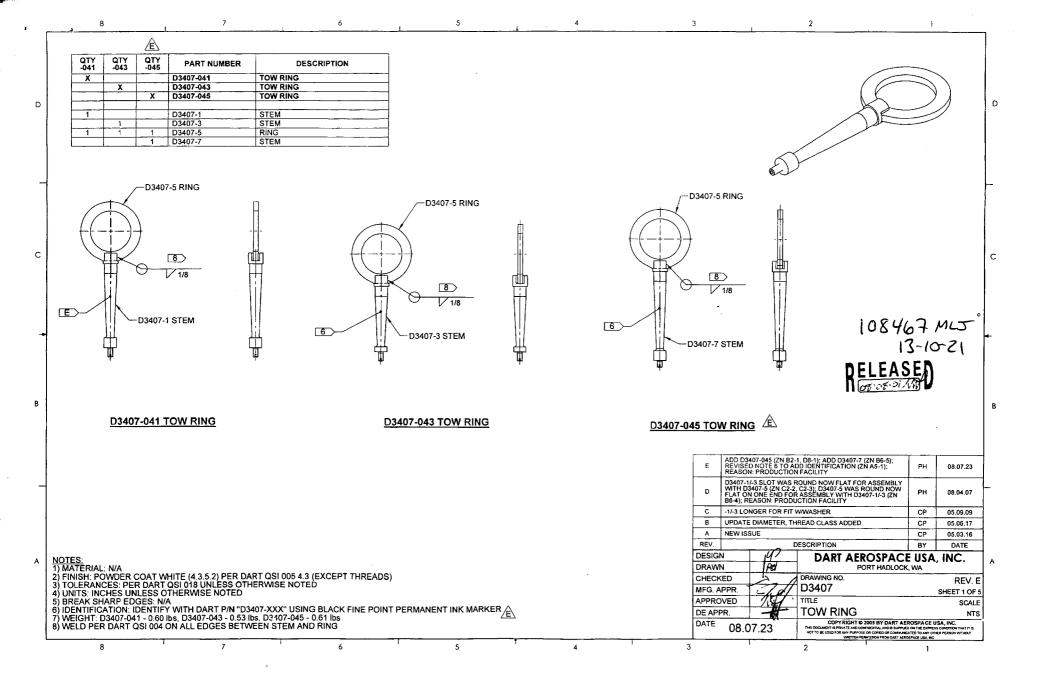
Date: 13-12-18

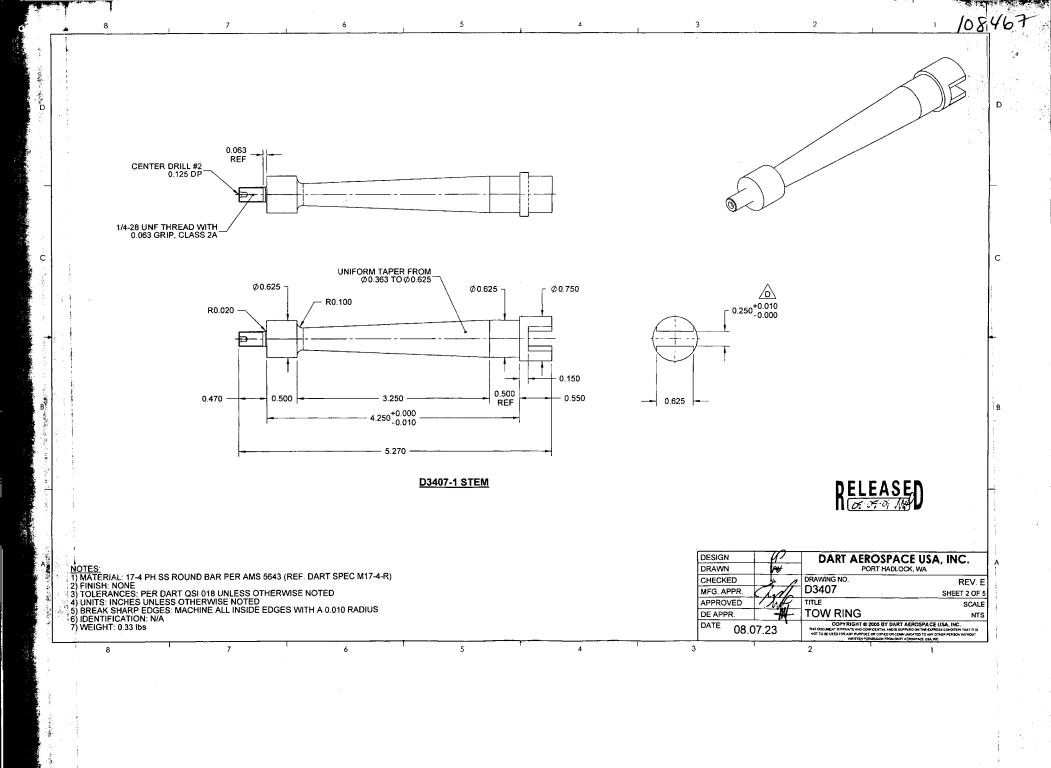
Audited by: LZ

Prototype Approval: N/A

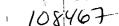
Date: N/A

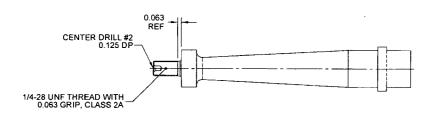
Rev	Date	Change	Revised by	Approved
Α	07.02.02	New Issue	KJ/JLM	
В	07.09.18	Tolerance revised	KJ/EC	
С	08.05.14	Dimensions updated per Dwg Rev D	KJ/JLM ,	11
D	09.05.04	Dwg Rev updated	KJ/DD	5/2/

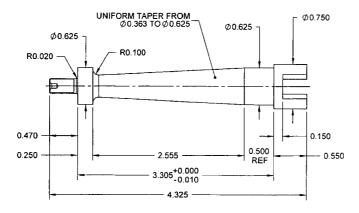


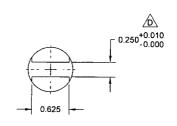


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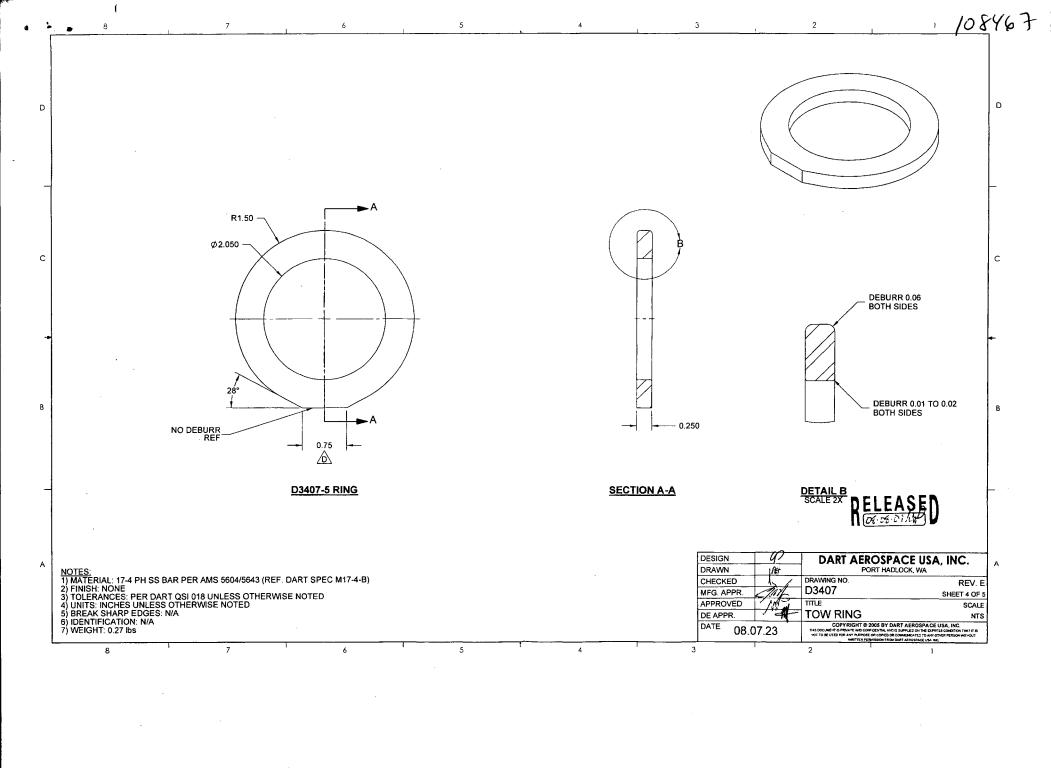
D3407-3 STEM

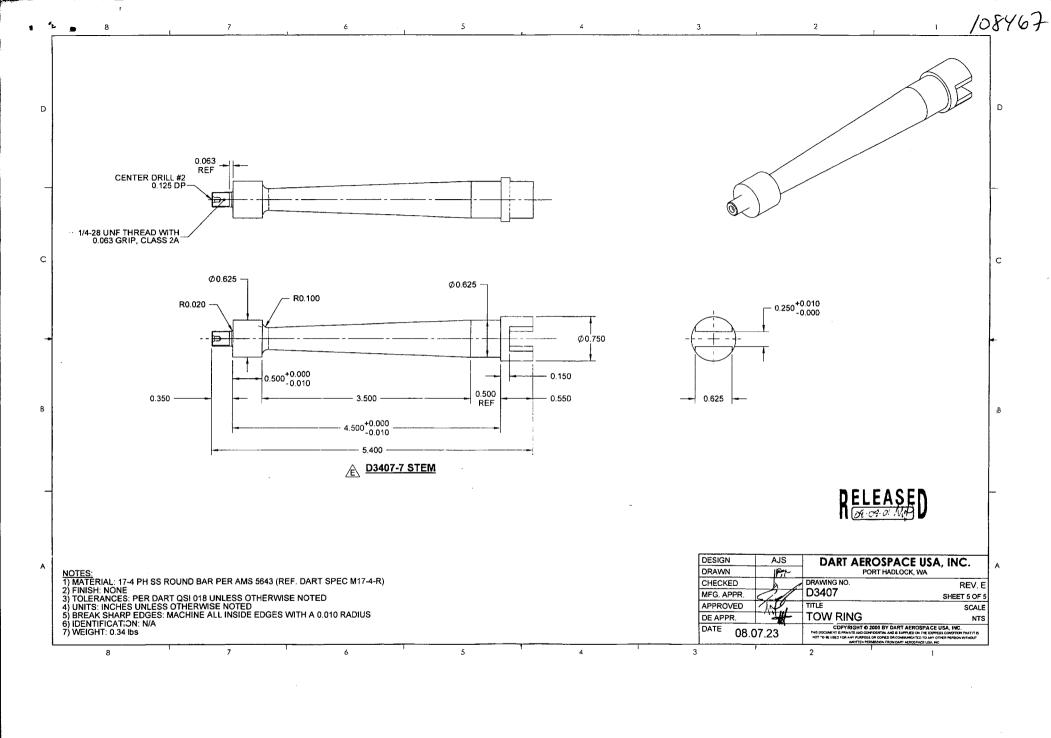


DESIGN	9	DART AEROSPAC	DART AEROSPACE USA, INC.						
DRAWN	Pet	PORT HADLOCK, WA							
CHECKED	3 /	DRAWING NO.	REV. E						
MFG. APPR.	Chall	D3407	SHEET 3 OF 5						
APPROVED	1111	TITLE	SCALE						
DE APPR.	-	TOW RING	NTS						
DATE 08.0	07.23	COPYRIGHT © 2005 BY DART THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS BUE HOT TO BE USED FOR ANY PURPOSE OR COPED OR COM- WAITTEN PERMISSION FROM DART	PLED ON THE EXPRESS CONDITION THAT IT IS KINCATED TO ANY OTHER PERSON WITHOUT						

NOTES:
1) MATERIAL: 17-4 PH SS ROUND BAR PER AMS 5643 (REF. DART SPEC M17-4-R)
2) FINISH: NONE
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: MACHINE ALL INSIDE EDGES WITH A 0.010 RADIUS
6) IDENTIFICATION: N/A
7) WEIGHT: 0.27 lbs

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